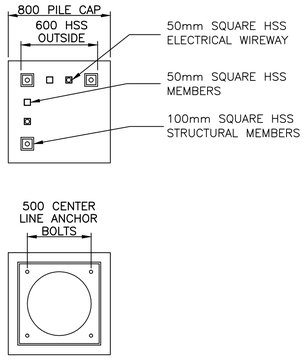
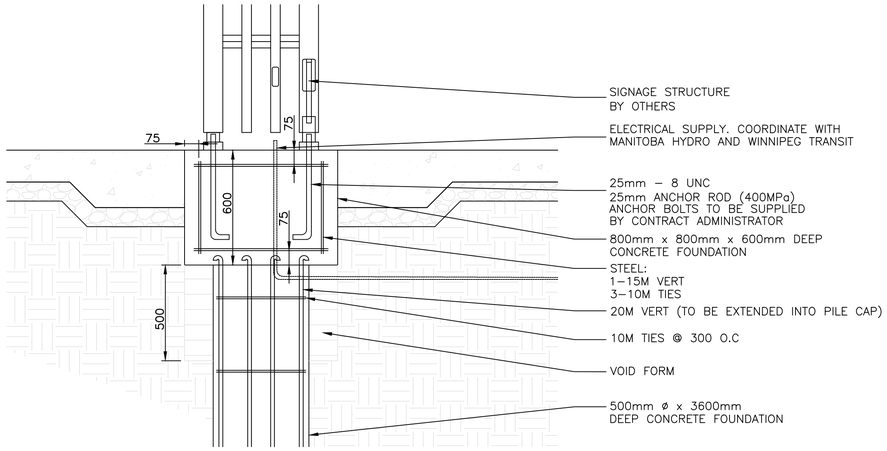


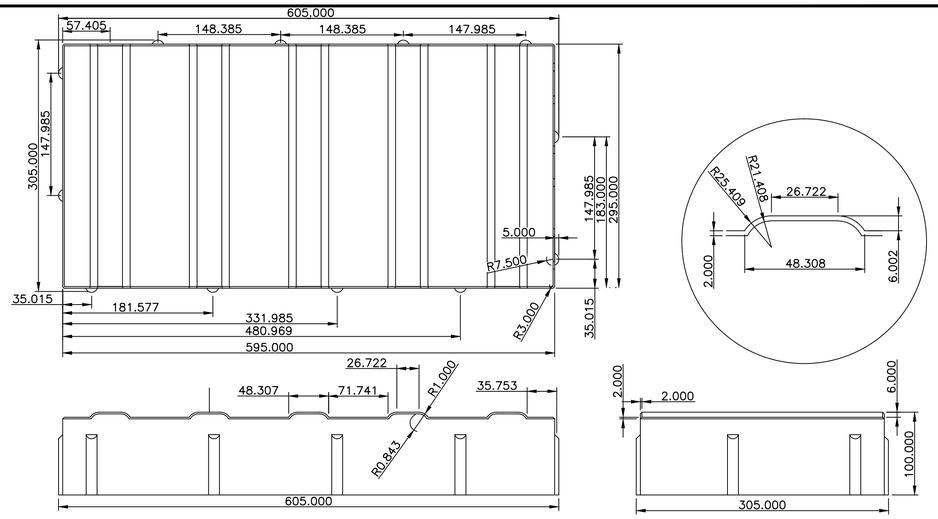
PLAN



SECTION

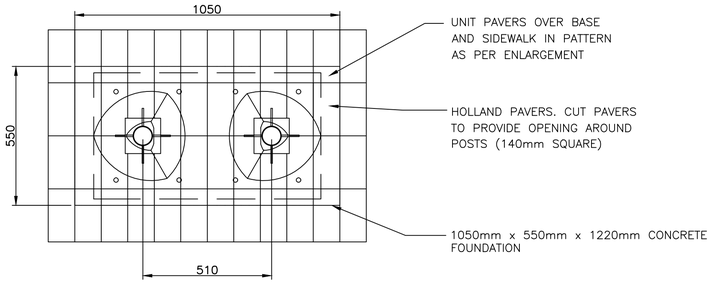
BUS STOP T–MAN SIGN FOUNDATION

N.T.S.

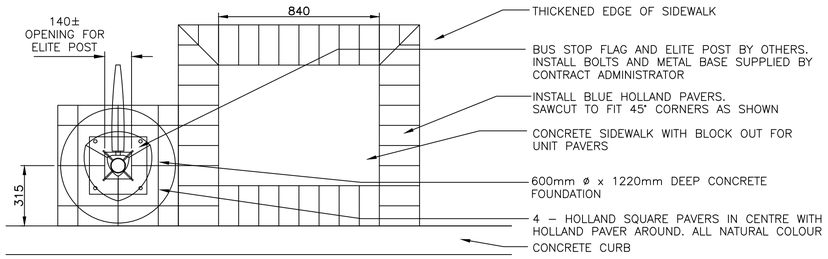


CONCRETE BROADWAY CYCLE PAVER (YELLOW)

N.T.S. (UNITS IN DECIMALIZED MILLIMETRES)



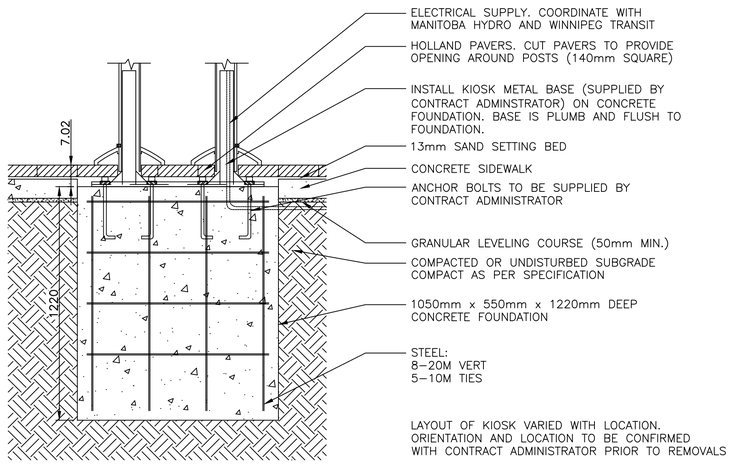
PLAN



PLAN

CONCRETE FOUNDATION CONSTRUCTION NOTES

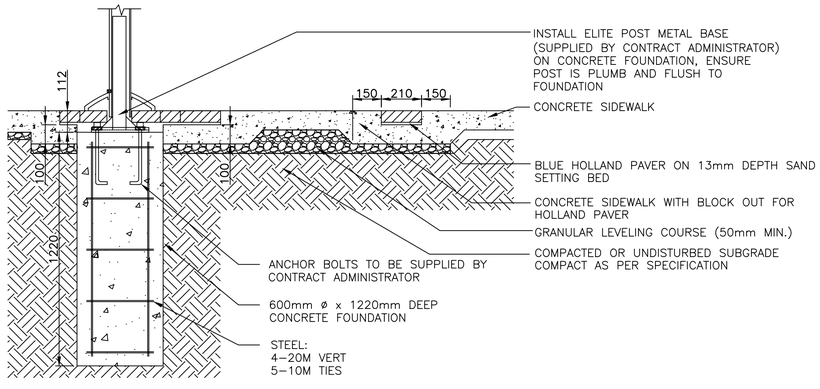
1. REINFORCING STEEL
   - CSA G30 GR. 400W
   - HOT DIP GALVANIZED
2. ANCHOR BOLTS
   - CSA G40.21 GR. 300W "J BOLTS"
3. TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) AS FOLLOWS:
   - BORED PILES – MIN. 1000mm BELOW FINAL GRADE
   - "HYDRO–JET EXCAVATED" PILES – MIN. 1500mm BELOW FINAL GRADE
4. CONCRETE – CONCRETE MATERIAL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES IN ACCORDANCE WITH CSA A23.1–04:
   - CLASS OF EXPOSURE: S–1
   - COMPRESSIVE STRENGTH @ 56 DAYS – 35 MPa
   - WATER/CEMENTING MATERIALS RATIO = 0.4
   - AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1–04 (4–7%)
   - CEMENT – TYPE HS OR HSb, HIGH SULPHATE RESISTANT



SECTION

INFORMATION KIOSK FOUNDATION

N.T.S.



SECTION

BUS STOP FLAG FOUNDATION

N.T.S.

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

CONSTRUCTION NOTES

1) CURB REPLACEMENT AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
2) ALL STREET RADIUS CURB UNDER 15M RADIUS SHALL BE REPLACED AS MODIFIED OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
3) PAVEMENT REPAIRS SHOWN ARE ONLY A REPRESENTATIVE SAMPLE OF THE TENDERED QUANTITIES
4) ASPHALT TIE–INS ON APPROACHES TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
5) ALL BULLNOSES TO HAVE SLOPED FACE.

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1)OBTAIN CLEARANCE FROM THE GAS UTILITY PRIOR TO EXCAVATION.
2)TAKE PRECAUTION TO AVOID DAMAGE TO GAS UTILITY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

BID OPPORTUNITY NO. 1–2014

EXISTING	LEGEND – PLAN	PROPOSED	EXISTING	LEGEND – PLAN	PROPOSED	EXISTING	LEGEND – PROFILE	PROPOSED
	HYDRANT			LDS/WWS			S/B WEST GUTTER	
	VALVE			WATERMAIN			S/B MEDIAN GUTTER	
	CURB STOP			GAS			S/B PROPERTY	
	PEDESTRIAN X–WALK			TRAFFIC SIGNALS				
	O.L.S.			HYDRO				
	MANHOLE			CURB RENEWAL				
	CATCH BASIN		232.000	ELEVATIONS	232.000			
	CURB INLET			PROPERTY LINE				
	HYDRO POLE			SURVEY BAR				
	TRAFFIC SIGNAL POLE			GEODETIC BENCH MARK				
	CONCRETE			RAMP CURB				

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.

NO.	REVISIONS	DATE	BY
2.	SUBMIT FOR ENGINEERS REVIEW	14/3/3	S.M.
1.	SUBMIT FOR PLAN APPROVAL	14/1/28	S.M.

ENGINEERING DIVISION
TECHNOLOGY SERVICES BRANCH
106 - 1155 PACIFIC AVE

DESIGNED BY	S.M./A.P.	CHECKED BY	D.T.
DRAWN BY	S.M.	APPROVED BY	S.S.
HOR. SCALE:	N.T.S.		
VERTICAL:	N.T.S.		
DATE	2014/03/26		

ENGINEER'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

PEMBINA HIGHWAY

FROM **MARKHAM ROAD** TO **UNIVERSITY CRESCENT**
REHABILITATION / ACTIVE TRANSPORTATION CORRIDOR AND ASSOCIATED WORKS

MISCELLANEOUS DETAILS SHEET 2 OF 3

CITY DRAWING NUMBER P–3353–11

SHEET 11 OF 13

11